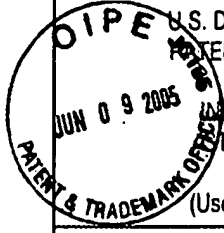



FORM PTO-1449				ATTY. DOCKET NO. COG-2-0979.02.US		SERIAL NO. 10/800,610	
 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT Sugar et al.			
				FILING DATE March 15, 2004		GROUP 2685	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PJ	*	4,121,221	10/1978	Meadows			
		4,599,734	07/1986	Yamamoto			
		4,639,914	01/1987	Winters			
		5,274,844	12/1993	Harrison et al.			
		5,394,435	02/1995	Weerackody			
		5,437,055	07/1995	Wheatley, III			
	*	5,457,808	10/1995	Osawa et al.			
		5,491,723	02/1996	Diepstraten			
	*	5,493,307	02/1996	Tsujimoto			
	*	5,507,035	04/1996	Bantz et al.			
	*	5,539,832	07/1999	Weinstein et al.			
	*	5,570,366	10/1996	Baker et al.			
		5,577,265	11/1996	Wheatley, III			
		5,610,617	03/1997	Gans et al.			
	*	5,752,173	05/1998	Tsujimoto			
	*	5,761,193	06/1998	Derango et al.			
	*	5,761,237	06/1998	Petersen et al.			
*	5,812,531	09/1998	Cheung et al.				
*	5,848,105	12/1998	Gardner et al.				
*	5,898,679	04/1999	Brederveld et al.				
*	5,912,921	06/1999	Warren et al.				
*	5,930,248	07/1999	Langlet et al.				
	5,982,327	11/1999	Vook et al.				
	6,008,760	12/1999	Shattil				
*	6,023,625	02/2002	Myers Jr.				
	6,037,898	03/2000	Parish et al.				
	6,038,272	03/2000	Golden				
PJ		6,044,120	03/2000	Bar-David et al.			
EXAMINER 				DATE CONSIDERED 10/26/01			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,058,105	05/2000	Hochwald et al.			
	*	6,091,934	07/2000	Berman et al.			
		6,097,771	08/2000	Foschini			
	*	6,118,788	09/2000	Kermani			
		6,122,260	09/2000	Liu et al.			
		6,124,824	09/2000	Xu et al.			
		6,141,393	10/2000	Thomas et al.			
	*	6,141,567	10/2000	Youssefmir et al.			
	*	6,144,651	11/2000	Rinchiuso et al.			
		6,144,711	11/2000	Raleigh et al.			
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		6,157,340	12/2000	Xu et al.			
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	6,298,092	10/2001	Heath, Jr.				
	6,307,882	10/2001	Marzetta				
	6,317,466	11/2001	Foschini et al.				
		6,327,310	12/2001	Hochwald et al.			

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P2		6,331,837	12/2001	Shattil			
		6,349,219	02/2002	Hochwald et al.			
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		6,462,709	10/2002	Choi			
		6,463,295	10/2002	Yun			
		6,473,467	10/2002	Wallace et al.			
	*	6,522,898	02/2003	Kohno et al.			
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	*	6,570,929	05/2003	Eriksson			
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	*	6,684,064	01/2004	Kazakevich et al.			
		6,687,492	02/2004	Sugar et al.			
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		2001/0015994	08/2001	Nam			
B2		2001/0046255	11/2001	Shattil			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TJ		2001/0053143	12/2001	Li et al.			
		2002/0001316	01/2002	Hornsby et al.			
		2002/0024975	02/2002	Hendler			
		2002/0034191	03/2002	Shattil			
		2002/0039884	04/2002	Raynes et al.			
		2002/0064246	05/2002	Kelkar et al.			
		2002/0067309	06/2002	Baker et al.			
		2002/0072392	06/2002	Awater et al.			
		2002/0085643	07/2002	Kitchener et al.			
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		2002/0136170	09/2002	Struhsaker			
		2002/0141355	10/2002	Struhsaker et al.			
		2002/0147032	10/2002	Yoon et al.			
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		2002/0172186	11/2002	Larsson			
		2002/0172269	11/2002	Xu			
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		2003/0022693	01/2003	Gerogiokas et al.			
		2003/0032423	02/2003	Boros et al.			
		2003/0048761	03/2003	Jarett			

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U.S. PATENT DOCUMENTS							
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<i>BJ</i>		2003/0108117	06/2003	Ketchum et al.			
	*	2003/0114108	06/2003	Frecassetti et al.			
<i>BJ</i>		2003/0125090	07/2003	Zeira			
		2003/0139194	07/2003	Onggosanusi et al.			
	*	2003/0181165	09/2003	Sugar et al.			
		2004/0072546	04/2004	Sugar et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>BJ</i> <i>BJ</i>		01/45300	06/2001	WO				
		02/03568	01/2002	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
		Iserte et al., "Pre-and Post-Beamforming in MIMO Channels Applied to HIPERLAN/2 and OFDM", IST Summit 2001, IST Mobile Communications Summit, September 2001.
		Iserte et al., "Joint Beamforming Strategies in OFDM-MIMO Systems", ICASSP 2002, IEEE International Conference on Acoustics, Speech and Signal Processing, May 2002.
		Lee et al., "Antenna Diversity for an OFDM System in a Fading Channel", Proceeding of IEEE MILCOM 1999, November 1999, pp. 1104-1109.
		Jakes, "Microwave Mobile Communications", Copyright 1974, pp. 313-320 and pp. 489-498.

EXAMINER <i>Blue</i>	DATE CONSIDERED 10/24/01 - 10/21/05
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		FILING DATE March 15, 2004		GROUP 2685		
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS SUBCLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
BR		Briesemeister et al., "Role-Based Multicast in Highly Mobile but Sparsely Connect Ad-Hoc Networks"; First Annual Workshop on Mobile Ad Hoc Networking & Computing; pp. 45-50; August 2000.				
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		Stridh et al., "MIMO Channel Capacity on a Measured Indoor Radio Channel at 5.8 GHz", Proc. of the Asilomar Conf. on Signals, Systems & Computers, Vol. 1, October 2000, pp. 733-737.				
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		Aziz et al., "Indoor Throughput and Range Improvements Using Standard Compliant AP Antenna Diversity in IEEE 802.11a and ETSI HIPERLAN/2", Vehicular Technology Conference, 2002, VTC 2001, October 7-11, 2001, IEEE VTS 54 th , Vol. 4, pp. 2294-2298.	
		Iserte et al., "Iterative Algorithm for the Estimation of Distributed Sources Localization Parameters", SSP 2001, 11 th IEEE Workshop on Statistical Signal Processing, August 2001.	
		Vaidyanathan et al., "The Role In Lossless Systems in Modern Digital Signal Processing: A Tutorial", IEEE Transactions on Education, Vol. 32, August 1989, pp. 181-197.	
		Raleigh et al., "Spatio-Temporal Coding for Wireless Communication", IEEE Transactions on Communications, Vol. 46, No. 3, March 1998, pp. 357-366.	
		Jungnickel et al., "Performance of a MIMO System with Overlay Pilots", IEEE GlobeCom 2001, pp. 594-598.	
		"BLAST High-Level Overview", Lucent Technologies, July 18, 2000.	
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		APPLICANT Sugar et al.	
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		Stridh et al., "Spatial Characterization of Indoor Radio Channel Measurements at 5 GHz", SAM 2000, March 2000, pp. 58-62.	
		Irmer et al., "MISO Concepts for Frequency-Selective Channels", 2002 International Zurich Seminar on Broadband Communications Access, February 19-21, 2002.	
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		Yang et al., "On Joint Transmitter and Receive Optimization for Multiple-Input-Multiple-Output (MIMO) Transmission Systems", IEEE Transactions on Communications, Vol. 42, No. 12, December 1994.	
		Ivrlac et al., "On Channel Capacity of Correlated MIMO Channels", ITG Fokusprojekt: Mobilkommunikation "Systeme mit Intelligenten Antennen", Ilmenau, 2001.	
		Chuah et al., "Capacity of Multi-Antenna Array Systems in Indoor Wireless Environment", November 1998, IEEE Globecom.	
		Wallace et al., "Experimental Characterization of the MIMO Wireless Channel: Data Acquisition and Analysis", February 27, 2002, Department of Electrical and Computer Engineering, Brigham Young University.	
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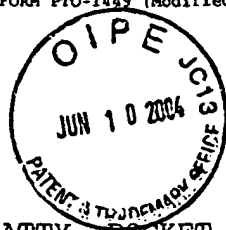
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		Lucent Technologies, "Lucent Technologies: Chips Poised to Bring 'BLAST' Multiple Input/Multiple Output Technology to Laptops, PDAs and Other Mobile Devices", October 16, 2002, lucent.com.	
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		Chiu et al., "OFDM Receiver Design", EE225C, Fall 2000, University of California, Berkeley.	
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		Sanchez et al., "CSMA/CA Beam Forming Antennas in Multi-hop Packet Radio"; Proc. For Swedish Workshop on Wireless Ad-Hoc Networks, March 5-6, 2001.	

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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

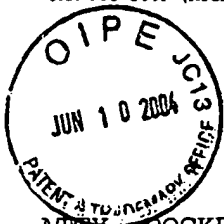
ATTY. DOCKET NO.: Cognio40US2 GROUP ART UNIT: 2685
SERIAL NO.: 10/800,610 FILING DATE: March 15, 2004
APPLICANT(S): Sugar et al. TODAY'S DATE: June 8, 2004

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class/Subclass	Translation (Yes or No)
<u>BA</u>	WO 02/03568	1/10/2002	PCT	—	
<u>AB</u>	WO 01/45300	6/21/2002	PCT	—	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

*Examiner Initial	Author, Title, Date, Pertinent Pages, Etc
<u>BA</u>	PCT Search Report from counterpart PCT application No. PCT/US03/05644 filed February 26, 2003.
<u>BB</u>	ISERTE, ANTONIO PASCUAL ET AL., "Pre-and Post-Beamforming in MIMO Channels Applied to HIPERLAN/2 and OFDM," IST Summit 2001 (IST Mobile Communications Summit), September, 2001.
<u>BC</u>	ISERTE, ANTONIO PASCUAL ET AL., "Joint Beamforming Strategies in OFDM-MIMO Systems," ICASSP 2002 (IEEE International Conference on Acoustics, Speech and Signal Processing), May, 2002.
<u>BD</u>	LEE, DENNIS ET AL., "Antenna Diversity for an OFDM System in a Fading Channel," Proceeding of IEEE MILCOM 1999, November, 1999, pages 1104-1109.
<u>BE</u>	JAKES, WILLIAM C., "Microwave Mobile Communications," Copyright 1974, pages 313-320 and 489-498.
<u>BF</u>	YEH, Y.S., "An Analysis of Adaptive Retransmission Arrays in a Fading Environment," The Bell System Technical Journal, October, 1970, pages 1811-1825.
<u>BG</u>	MORGAN, SAMUEL P., "Interaction of Adaptive Antenna Arrays in an Arbitrary Environment," The Bell System Technical Journal, January, 1965, pages 23-47.
<u>BH</u>	AZIZ, ABDUL M.K. ET AL., "Indoor Throughput and Range Improvements using Standard Compliant AP Antenna Diversity in IEEE 802.11a and ETSI HIPERLAN/2," Vehicular Technology Conference, 2002, VTC 2001, October 7-11, 2001, IEEE VTS 54 th , Volume 4, pages 2294-2298.



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<u>B2</u> BI	ISERTE, ANTONIO PASCUAL ET AL., "Iterative Algorithm for the Estimation of Distributed Sources Localization Parameters," SSP 2001 (11 th IEEE Workshop on Statistical Signal Processing), August, 2001.
<u>B2</u> BJ	HEATH, ROBERT W., JR., "A Simple Scheme for Transmit Diversity Using Partial Channel Feedback," Signals, Systems & Computers, Conference Record of the Thirty-Second Asilomar Conference November 1-4, 1998, Vol. 2, pages 1073 - 1078.
<u>B2</u> BK	IRMER, RALF ET AL., "MISO Concepts for Frequency-Selective Channels," 2002 International Zurich Seminar on Broadband Communications Access, February 19-21, 2002.
<u>B2</u> BL	CHOI, RULY LAI-U ET AL., "MISO CDMA Transmission with Simplified Receiver for Wireless Communication Handsets," IEEE Transactions on Communications, Vol. 49, No. 5, May, 2002.
<u>B2</u> BM	MEYER-OTTENS, SVEN ET AL., "Downlink Beamforming for W-CDMA Using Feedback and Interference Estimate," March 9, 2001.
<u>B2</u> BN	BRUNNER, CHRISTOPHER ET AL., "Downlink Beamforming for WCDMA Based on Uplink Channel Parameters," Proc. EPMCC 1999, pages 375-380, March 1999.
<u>B2</u> BO	YANG, JIAN ET AL., "On Joint Transmitter and Receive Optimization for Multiple-Input-Multiple-Output (MIMO) Transmission Systems," IEEE Transactions on Communications, Vol. 42, No. 12, December, 1994.
<u>B2</u> BP	IVRLAC, MICHEL ET AL., "On Channel Capacity of Correlated MIMO Channels," ITG Fokusprojekt: Mobilkommunikation "Systeme mit intelligenten Antennen", Ilmenau, 2001.
<u>B2</u> BQ	VAIDYANATHAN ET AL., "The Role of Lossless Systems in Modern Digital Signal Processing: A Tutorial," IEEE Transactions on Education, Vol. 32, August 1989, pp. 181-197.
<u>B2</u> BR	RALEIGH ET AL., "Spatio-Temporal Coding for Wireless Communication," IEEE Transactions on Communications, Vol 46., No. 3, March 1998, pp. 357-366.
<u>B2</u> BS	JUNGnickel ET AL., "Performance of a MIMO System with Overlay Pilots," IEEE GlobeCom 2001, pp. 594-598.
<u>B2</u> BT	BLAST High-Level Overview, Lucent Technologies, July 18, 2000.
<u>B2</u> BU	GOLDEN ET AL., "Detection Algorithm and Initial Laboratory Results Using V-BLAST space-time communication architecture," Electronic Letters, January 7, 1999, vol. 35, No. 1.
<u>B2</u> BV	GOLDEN ET AL., "V-BLAST: A High Capacity Space-Time Architecture for the Rich-Scattering Wireless Channel," Bell Laboratories, Lucent Technologies, Proc. Int'l Symposium on Advanced Radio Technologies, Boulder, CO, September 10, 1998.



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APPLICANT(S): Sugar et al. TODAY'S DATE: June 8, 2004

<u>BW</u>	WOLNIANSKY ET AL., "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel," Proc. ISSSE-98, Pisa, Italy, Sept. 29, 1998.
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<u>CB</u>	STRIDH ET AL., "Spatial Characterization of Indoor Radio Channel Measurements at 5 GHz," SAM '2000, March, 2000, pp. 58-62.
<u>CC</u>	BABLAN ET AL., "Optimum Diversity Combining and Equalization in Digital Data Transmission with Applications to Cellular Mobile Radio-PartII: Numerical Results", May 1992, IEEE Transactions on Communications, Vol.30, No. 5, Pgs.895-907
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<u>CI</u>	CHIU, ET AL., "OFDM Receiver Design," EE225C, Fall 2000, University of California, Berkeley.

EXAMINER

DATE CONSIDERED

10/24/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s)